

Laccase F

Benzenediol: oxygen oxidoreductase
EC 1.10.3.2

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| Description: | Enzyme preparation which oxidised monovalent and polyvalent phenolic compounds. It catalyses reactions to products similar like humic substances under less oxygenic conditions. Particularly Laccase C oxidises mono -phenols to into the corresponding chinones and phenoxyradicals which polymerises spontaneously and are precipitated in the solution at less oxygenic content. |
| Origin: | <i>Classified.</i> |
| Application: | <ul style="list-style-type: none">• precipitation of phenolic substances• enzymatic browning of food (cacao, coffee)• glueing of flake boards• modification of elasticity and consistency of pastes, gums dispersion media, phenolic resins• production of microbiocides• analysis of phenols |
| Activity: | > 5.000 U/g substrate: ABTS (Methods: ASA Spezialenzyme GmbH) |
| Substrate specificity: | Laccase F converts a lot of phenolic and halogenated substrates. |
| Parameters of reaction: | <u>pH</u> optimum < 4.0 active within pH 2.0 – 6.5 <u>temperature</u> optimum 55°C active within 20 – 70°C |
| Order-No.: | 2035 |
| Form of delivery: | dark brown powder (lyophilisate) |
| Storage: | 4°C |
| Literature: | Ming-Qiang Ai, (2015), J. Microbiol. Biotechnol., <u>25(8)</u> , 1361-1370 |